

AM - JM -TO SERIES

Food Grade, Direct Acting

AM and **JM** are direct acting solenoid valves. The fixed core and armature tube are welded together to enhance pressure resistance and leak-tightness. Valves do not require a minimum operating pressure. A large selection of seal materials provides wide chemical compatibility. AC/DC interchangeability of the coil is possible for both NC and NO configurations.

1

TECHNICAL DATA

PORT CONNECTION	G 1/8 (F), G1/8 (M), Hose connection Ø6, fast fitting, push in		
SEALING MATERIALS	FKM		EPDM*
FLUID TEMPERATURE	-10°C +140°C		-10°C +140°C
FLUIDS	Air, water, inert gas, steam		Water, inert gas, steam
VISCOSITY	'12 cSt up to orifice 1.5 mm, 37 cSt for orifice 2.0 and 2.3 mm, 53 cSt for orifice 2.5 mm and above		
TUBE Ø - COIL WIDTH - SERIES	JM-AM	ø 10 mm - 22 mm	LBA05, LTA05 (class F), LBV05 (class H)
	JM-AM	ø 10 mm - 22 mm	LBV08 (class H), ED 50%
	AM	ø 13 mm - 30 mm	BDA08, BVA08 (class F), BDV08 (class H)
INSTALLATION	as required, preferably with actuator upright		
PROTECTION DEGREE	IP65 EN 60529 (DIN 40050) with plug connector		

- * Available on request with minimum order quantity.

MATERIALS

BODY	PPS
ORIFICE	For JM series: PPS For AM series: stainless steel
ARMATURE TUBE	Stainless steel AISI series 300
FIXED CORE	Stainless steel AISI series 400
PLUNGER	Stainless steel AISI series 400
PHASE DISPLACEMENT RING	Gold plated copper
SPRING	Stainless steel AISI series 300
SEALING	V=FKM, E=EPDM

- V = FKM+EPDM for valves with PPS body and PUSH IN connections.

- **CE**
  - 2014/35/EU (LVD)
  - 2014/30/EU (EMC)
  - 2014/68/EU (PED)

  art. 4.3 up to 1"

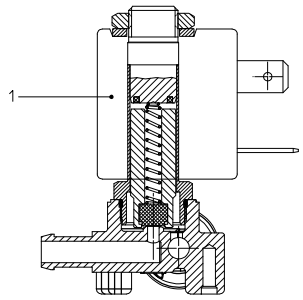
- **UL** regognized and **VDE** approved coils are available for this series, please refer to coil section.

- **NSF/ANSI 169** certification (Special Food Equipment and Devices) is available for this series, Valves with NSF approval are in compliance with CE regulation 1935/2004. List of certified product codes available in the following tables.

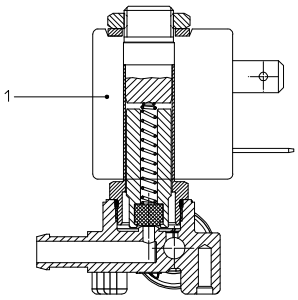
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- The fluids listed in the "technical data" tables should be considered as a recommendation. Please check the chemical compatibility of the fluids with the materials of the valve at RFQ stage.
- G type thread in accordance with ISO 228/1.
- For spare parts list please refer to the dedicated chapter.

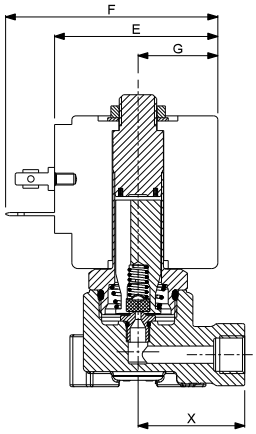
JM SERIES



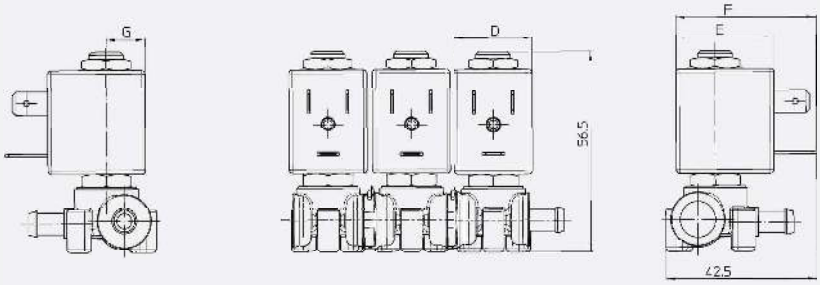
JM SERIES, DC VERSION



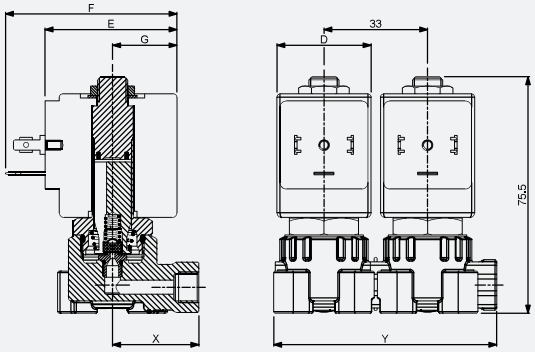
AM SERIES



DRAWING 1



DRAWING 2



SERIES	DIMENSIONS [mm]					
	D	E	F	G	X	Y
JM SERIES	22	28±1	39,5	11	-	-
AM SERIES	30	42	54	20,5	27,5	71 (G1/8 F) 74,5 (hose conn.)

JM SERIES

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			
				MIN.	MOPD		PS
					AC	DC	
REF. TO CODIFICATION TABLE	1,2	0,7	L**05	0	15	15	16
	1,5	1,1	L**05	0	15	15	16
	2	1,8	L**05	0	15	8	16
	2,3	2,3	L**05	0	15	6	16
	2,6	2,4	L**05	0	10	3,5	16

JM SERIES, DC VERSION

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			
				MIN.	MOPD		PS
					AC	DC	
REF. TO CODIFICATION TABLE	1,2	0,7	L**05	0	-	15	16
	1,5	1,1	L**05	0	-	15	16
	1,8	1,6	L**05	0	-	12	16
	1,8	1,6	LBV08*	0	-	16	16
	2	1,8	L**05	0	-	8	16
	2	1,8	LBV08*	0	-	16	16
	2,3	2,3	L**05	0	-	6	16
	2,6	2,4	L**05	0	-	3,5	16

- *LBV08 has ED50%. Please refere to coil chapter for further details.

AM SERIES

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			
				MIN.	MOPD		PS
					AC	DC	
REF. TO CODIFICATION TABLE	1,5	1	B**08	0	16	16	16
	2	1,8	B**08	0	16	16	16
	2,5	2,5	B**08	0	14	9	16
	3	3	B**08	0	10	6	16

- For application with steam or with PS > 16 bar please consult our Technical Service
- The Kv values refer to the orifice and do not take into account any reductions due to the size of the connection pipe
- Max torques: fittings 2 Nm, coil nut assembly 2 Nm, armature tube 4 Nm
- Use fitting seal compatible with body material
- Don't mount the groups with 1 or more elements cantilevered
- Not suitable for vacuum use
- Available on request and with minimum quantities.

I	II	III	IV	V	VI	VII	VIII	IX	X	XI		XII
2	4		M	A	2	V	BD	BD	BD	BD	-	T0

I. NUMBER OF WAYS
2 - 2 - way

II. NUMBER OF ELEMENTS
2 - number of elements
3 - number of elements
4 - number of elements

III. ARMATURE TUBE MATERIAL
Blank - std
6 - AISI (optional, NC element)

IV. SERIES
M - modular JM Series

V. INLET SIDE
A - right inlet
B - left inlet
X - double inlet

VI. INLET CONNECTION
1 - G1/8 (M)
2 - G1/8 (F)
3 - hose connection
4 - fast connection
U - PUSH IN for OD 4 mm
V - PUSH IN for OD 6 mm

VII. SEALING MATERIAL
V - FKM
E - EPDM

VIII. FIRST ELEMENT TYPE

IX. SECOND ELEMENT TYPE

X. THIRD ELEMENT TYPE *
* blank if not used

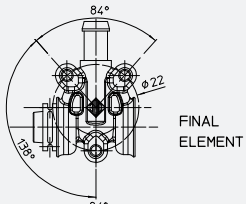
XI. FOURTH ELEMENT TYPE *
* blank if not used

XII. NSF CERTIFICATION
T0 - PPS body

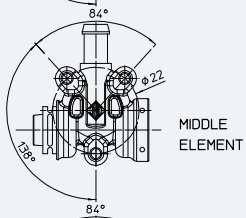
OUTLET CONN.	ORIFICE [mm]	VERSION	ELEMENT CODE
G1/8 (F)	1,2	AC, DC	AD
G1/8 (F)	1,5	AC, DC	AO
G1/8 (F)	2	AC, DC	AQ
G1/8 (F)	2,3	AC, DC	AE
G1/8 (F)	2,6	AC, DC	AF
G1/8 (F)	1,2	DC	AG
G1/8 (F)	1,5	DC	AR
G1/8 (F)	1,8	DC	AS
G1/8 (F)	2	DC	AT
G1/8 (F)	2,3	DC	AH
G1/8 (F)	2,6	DC	AI
G1/8 (M)	1,2	AC, DC	BD
G1/8 (M)	1,5	AC, DC	BO
G1/8 (M)	2	AC, DC	BQ
G1/8 (M)	2,3	AC, DC	BE
G1/8 (M)	2,6	AC, DC	BF
G1/8 (M)	1,2	DC	BG
G1/8 (M)	1,5	DC	BR
G1/8 (M)	1,8	DC	BS
G1/8 (M)	2	DC	BT
G1/8 (M)	2,3	DC	BH
G1/8 (M)	2,6	DC	BI
Hose connection	1,2	AC, DC	CD
Hose connection	1,5	AC, DC	CO
Hose connection	2	AC, DC	CQ
Hose connection	2,3	AC, DC	CE
Hose connection	2,6	AC, DC	CF
Hose connection	1,2	DC	CG
Hose connection	1,5	DC	CR
Hose connection	1,8	DC	CS
Hose connection	2	DC	CT
Hose connection	2,3	DC	CH
Hose connection	2,6	DC	CI

OUTLET CONN.	ORIFICE [mm]	VERSION	ELEMENT CODE
Fast fitting	1,2	AC, DC	DD
Fast fitting	1,5	AC, DC	DO
Fast fitting	2	AC, DC	DQ
Fast fitting	2,3	AC, DC	DE
Fast fitting	2,6	AC, DC	DF
Fast fitting	1,2	DC	DG
Fast fitting	1,5	DC	DR
Fast fitting	1,8	DC	DS
Fast fitting	2	DC	DT
Fast fitting	2,3	DC	DH
Fast fitting	2,6	DC	DI
P.I. Ø4mm	1,2	AC, DC	ED
P.I. Ø4mm	1,5	AC, DC	EO
P.I. Ø4mm	2	AC, DC	EQ
P.I. Ø4mm	2,3	AC, DC	EE
P.I. Ø4mm	2,6	AC, DC	EF
P.I. Ø4mm	1,2	DC	EG
P.I. Ø4mm	1,5	DC	ER
P.I. Ø4mm	1,8	DC	ES
P.I. Ø4mm	2	DC	ET
P.I. Ø4mm	2,3	DC	EH
P.I. Ø4mm	2,6	DC	EI
P.I. Ø6mm	1,2	AC, DC	FD
P.I. Ø6mm	1,5	AC, DC	FO
P.I. Ø6mm	2	AC, DC	FQ
P.I. Ø6mm	2,3	AC, DC	FE
P.I. Ø6mm	2,6	AC, DC	FF
P.I. Ø6mm	1,2	DC	FG
P.I. Ø6mm	1,5	DC	FR
P.I. Ø6mm	1,8	DC	FS
P.I. Ø6mm	2	DC	FT
P.I. Ø6mm	2,3	DC	FH
P.I. Ø6mm	2,6	DC	FI

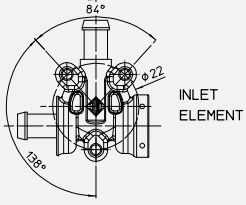
- Please contact ODE to configure manifolds of 5 elements and above
- Some element types/combinations have a minimum order quantity. Please contact ODE before order.



FINAL ELEMENT



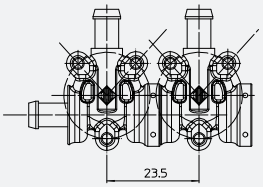
MIDDLE ELEMENT



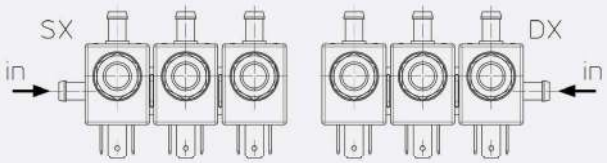
INLET ELEMENT


O-RING
R990005/VX


CLIP
R453121



INTERAXIS ELEMENT



AM SERIES - CODIFICATION

I	II	III	IV	V	VI	VII		VIII
G	2	M	A	2	V	0003	-	T0

I. TYPE OF VALVE
G - manifold

II. NUMBER OF ELEMENTS
2 - number of elements
3 - number of elements
4 - number of elements

III. SERIES
M - modular AM Series

IV. INLET SIDE
A - right inlet
B - left inlet

V. INLET CONNECTION
2 - G1/8 (F)
3 - hose connection

VI. SEALING MATERIAL
V - FKM
E - EPDM

VII. SERIAL NUMBER

VIII. NSF CERTIFICATION
T0 - PPS body

- Serial number is to be assigned by ODE for every specific configuration. Please contact ODE before order.
- Please contact ODE to configure manifolds of 5 elements and above
- Some element types/combinations have a minimum order quantity. Please contact ODE before order.

